

CLAIMS

1.- 11 (cancelled)

12. (currently amended) Method of treatment of an individual suffering from a disease selected from the group consisting of insulin resistance, hyperpigmentation and/or inflammatory processes in the skin, fungal diseases, overweight and obesity, and microbacterial infections, comprising administering to said individual an effective amount of a composition comprising a compound comprising a derivative of deoxynojirimycin moiety, a spacer moiety comprising an alkoxy polyalkene or polyalkene chain of from 3 to 8 carbon atoms and an apolar polycyclic alcohol moiety containing three or more rings each sharing two or more carbon atoms with another ring, or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier, wherein said derivative comprises a large hydrophobic moiety selected from the group adamantanemethanol, cholesterol, β -cholesterol, adamantanol and 9-hydroxyphenanthrene.

13. (currently amended) The Method of treatment of claim 12, wherein said derivative wherein said apolar polycyclic alcohol is selected from the group consisting of adamantanemethanol, cholesterol, β -cholesterol, adamantanol and 9-hydroxyphenanthrene further comprises an apolar side chain derived from a polycyclic alcohol containing three or more rings each sharing two or more carbon atoms with another ring and is capable of inserting in lipid bilayers, and a spacer comprising an alkoxy polyalkene or polyalkene chain of from 3 to 8 carbon atoms.

14. (cancelled).

15. (currently amended previously presented) Method of treatment of an individual suffering from insulin resistance, comprising administering to said individual an effective amount of a composition comprising N (5-adamantane-1-yl-methoxy-pentyl)deoxynojirimycin, or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.

16.(withdrawn) Method of treatment of an individual suffering from a disease selected from the group consisting of hyperpigmentation and/or inflammatory processes in the skin, fungal diseases, overweight and obesity, and microbacterial infections, comprising administering to said individual an effective amount of a composition comprising N (5-adamantane-1-yl-methoxy-pentyl)deoxynojirimycin, or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.

17. (previously presented) Method of treatment of an individual suffering from overweight or obesity~~insulin resistance~~, said method comprising administering to said individual suffering ~~overweight or obesity~~ an effective amount of a composition comprising N (5-adamantane-1-yl-methoxy-pentyl)deoxynojirimycin, or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.